

AMENDMENTS TO THE SPECIFICATION

Please replace Paragraph [0021] with the following paragraph:

A¹ Referring now to FIG. 3A, the flowchart-based programming and control system 110 is illustrated in further detail. The computer 116 includes an I/O interface 150 that is connected to a processor 152 and memory storage 154 which can include floppy drives, hard drives, optical storage, etc. Memory 160 is connected to the processor 152 and the I/O interface 150. The memory 160 includes random access memory (RAM) and read only memory (ROM). When the computer 116 is booted up, the computer 116 loads an operating system (OS) module 170 which is preferably a multi-tasking OS, such as Windows 2000®, Windows NT® and Windows NTE®. After being selected and launched by the user, the computer 116 loads a flowchart module 174 into memory 160. As a user creates a flowchart 176, the flowchart module 174 generates flowchart source code 178 which can be stored in memory 160 or memory 154. When the user validates and debugs the flowchart source code 178, the user compiles the flowchart source code 178 and generates flowchart object code 180 that is executed by a flowchart run time engine 186 during operation of the process 10.

Please replace Paragraph [0031] with the following paragraph:

A² Referring now to FIG. 5, the flowchart ~~150~~-176 is illustrated in further detail and includes enable blocks, decision blocks, and action blocks. Control begins at

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enable block 300 where variables are initialized. For example, Flag A and Flag B are set equal to zero. Control continues with decision block 302 where control determines whether a first switch is on. If the first switch is not on, control turns on a flasher at action block 304 and control returns to step 302. Otherwise, control continues with action block 306 where control turns on a relay associated with the furnace 60 and a relay associated with the mixer 42. Control waits five minutes at wait block 307 until the furnace 60 is operating and the mixer 42 has had sufficient time to mix the first and second materials. Then, control continues with decision block 310 where control determines whether Flag A is equal to one. If Flag A equals one, control turns on an alarm relay (not shown in FIG. 1) in step 311. Otherwise, control continues with decision block 312 where control determines if the temperature of the first and second materials 41 is less than 80° F. If the temperature is less than 80°, control continues with decision block 314 where control determines whether a pilot is present by scanning an output of the pilot sensor 72.

Please replace Paragraph [0036] with the following paragraph:

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Referring back to FIG. 5, a tool 212 on the tool bar ~~208~~210 allows the user to select a special action block that generates reason and sub-reason codes when it is executed at run time. The tool bar adds the special action block to the page 218. When the user double clicks on the special action block tool, a dialog box 400 is generated which allows a previously defined capture set 223 to be selected from

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a drop down list box 402. Once a capture set is selected, reason codes 231 and sub-reason codes 235 are enabled and can be selected from drop down list boxes 406 and 408.
